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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,368	01/10/2002	Thomas E. Broome	1001.1388101	8240
20010	7590 02/26/200 SEAGER & TUFTE, L	EXAMINER		
1221 NICOLLET AVENUE SUITE 800 MINNEAPOLIS, MN 55403-2420			EREZO, DARWIN P	
			ART UNIT	PAPER NUMBER
	,		3731	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		A N N -			
		Application No.	Applicant(s)		
		10/044,368	BROOME ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Darwin P. Erezo	3731		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. hely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a)⊠	Responsive to communication(s) filed on <u>01 Desertion</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	į –		
Dispositi	on of Claims				
5)	Claim(s) 5-31,52,54-72 and 74-93 is/are pending 4a) Of the above claim(s) 5-31 is/are withdrawn Claim(s) is/are allowed. Claim(s) 52,54-72 and 74-93 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) according according and according according to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declara	n from consideration. Trelection requirement. Tr. Tr. Tr. Tr. Tr. Tr. Tr. T	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority (ınder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) Notice 3) Infor	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 52, 54, 55, 57-72, 74, 75 and 77-93 are rejected under 35 U.S.C. 102(e) as being anticipated by US 6,605,102 to Mazzocchi et al.

As to claims 52, 72 and 92, Fig. 11B discloses a filter assembly comprising an elongate shaft 265, a filter 270 disposed and attached to a distal end of the shaft, the filter including a filtering region and an attachment region (col. 19, line 66 – col. 20, line 8). The filtering region includes a major opening defined adjacent the proximal end (seen in Fig. 18B) and is comprised of a single layer of filter membrane that is folded onto itself to define a filter basked and extending between the major opening and the distal end of the filtering region, the filtering region comprising apertures to allow the passage of blood through the filtering region; the filter membrane further comprising a first tapered portion defining a first angle that is lesser (different) than a second angle defined by a second tapered portion (see attached in the Office Action dated 06/01/2006).

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Mazzocchi also discloses a filter having an expanded (Fig. 11B) and contracted shape (Fig. 11A); wherein the filtering region has at least one single layer of filter membrane in the expanded shape.

As to claims 54, 55, 74 and 75, different portions of the filter can be sectioned off to be called the first or second portion, and each of these portion can be selected so that the first portion has a conical shape and the second portion has a frustoconical shape.

As to claims 57 and 77, the filter membrane is viewed as an expandable frame membrane because the transition from Fig. 11A to 11B shows the filter membrane expanding.

As to claims 58-60 and 78-80, the filter membrane (frame) is formed from Nitinol (col. 5, lines 27-52).

As to claims 61-63 and 81-83, the filter membrane is viewed as having filter struts and a filter mouth frame because the filter membrane is comprised of wire strands that are intertwined with each other, and thus are capable of biasing the filter to any position, including an expanded position, and any portion of the filter can be called the filter mouth.

As to claims 64-69 and 84-89, see Fig. 12A regarding the dimension of the first tapered portion relative to retrieval sheath **C**, which is used to retrieve the filter. The filter is also viewed as having a wire that limits the tapering portion because the filter itself is comprised of a wire.

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As to claims 70,71,90,91 and 93, see Fig. 11B, which shows an attachment region of the filter membrane and (at least four) struts **290**.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 56 and 76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mazzocchi et al. and in view of US 5,814,064 to Daniel et al.

Mazzocchi teaches all the limitations of the claim except for the filter membrane comprising a polyurethane. Instead, the filter membrane of Mazzocchi comprises metal. However, Daniel teaches a filter assembly comprising an elongated shaft with a filter membrane forming a filter basket (Fig. 18B), which is similar to Mazzocchi. Daniel further teaches the filter membrane to be made of polyurethane (col. 10, line 44-45). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use polyurethane in the filter membrane of Mazzocchi because Daniel teaches that polyurethane can be used to form filter membranes. As such, using a specific type of material to form the filter membrane would be a mere design choice to one of ordinary skill in the art.

Response to Arguments

5. Applicant's arguments filed 12/01/2006 have been fully considered but they are not persuasive.

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6. The applicant amended the independent claims to recite the filter having an expanded and contracted shape, and wherein the filter comprises a single layer of filter membrane in the expanded shape. However, it is noted that the both independent claims use the transitional phrase "comprising", which renders the claims open-ended. That is, the phrase does NOT exclude any element, step, or ingredient not specified in the claim. Therefore, the Mazzocchi reference, which discloses a filter layer having two layers of filter membrane, also discloses a filter having a "single filter layer" and an additional filter layer.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darwin P. Erezo whose telephone number is (571) 272-4695. The examiner can normally be reached on M-F (8:00-4:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan T. Nguyen can be reached on (571) 272-4963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Darwin P. Erezo Examiner Art Unit 3731

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ANHTUAN T. NGUYEN SUPERVISORY PATENT EXAMINER